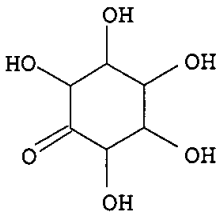
```
 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    1 JUN 2003  HIGHEST RN 523977-56-2
DICTIONARY FILE UPDATES:   1 JUN 2003  HIGHEST RN 523977-56-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e l-epi-2-inosone/cn
E1            1     L-EPHENAMINE PENICILLIN G/CN
E2            1     L-EPHOS/CN
E3            0 --> L-EPI-2-INOSONE/CN
E4            1     L-EPIASARININ/CN
E5            1     L-EPICATECHIN/CN
E6            1     L-EPICATECHIN GALLATE/CN
E7            1     L-EPICATECHOL/CN
E8            1     L-EPIGALLOCATECHIN/CN
E9            1     L-EPIGALLOCATECHIN GALLATE/CN
E10           1     L-EPIGALLOCATECHOL/CN
E11           1     L-EPINEPHRINE/CN
E12           1     L-EPINEPHRINE BITARTRATE/CN

=> e inosone/cn
```

```
E13             1      INOSITOPHOSPHORIC ACID/CN
E14             1      INOSITOSAL/CN
E15             0 --> INOSONE/CN
E16             1      INOSOSE/CN
E17             1      INOSOSE 2,3-DEHYDRATASE/CN
E18             1      INOSOSE AMINOTRANSFERASE/CN
E19             1      INOSOSE REDUCTASE (NAD(P)H)/CN
E20             1      INOSOSE, (2,4-DINITROPHENYL)HYDRAZONE/CN
E21             1      INOSOSE, 2,3-DEOXY-1-O-METHYL-/CN
E22             1      INOSOSE, 2,3:4,5-DIANHYDRO-6-C-(3-METHOXY-3-OXO-2-((1-OXO-2,
                       8-DECADIENYL)AMINO)PROPYL)-/CN
E23             1      INOSOSE, 5-O-METHYL-/CN
E24             1      INOSOSE, DIETHYL DITHIOACETAL/CN

=> e l-epi-2-inosose/cn
E25             1      L-EPHENAMINE PENICILLIN G/CN
E26             1      L-EPHOS/CN
E27             0 --> L-EPI-2-INOSOSE/CN
E28             1      L-EPIASARININ/CN
E29             1      L-EPICATECHIN/CN
E30             1      L-EPICATECHIN GALLATE/CN
E31             1      L-EPICATECHOL/CN
E32             1      L-EPIGALLOCATECHIN/CN
E33             1      L-EPIGALLOCATECHIN GALLATE/CN
E34             1      L-EPIGALLOCATECHOL/CN
E35             1      L-EPINEPHRINE/CN
E36             1      L-EPINEPHRINE BITARTRATE/CN

=> e inososе/cn
E37             1      INOSITOPHOSPHORIC ACID/CN
E38             1      INOSITOSAL/CN
E39             1 --> INOSOSE/CN
E40             1      INOSOSE 2,3-DEHYDRATASE/CN
E41             1      INOSOSE AMINOTRANSFERASE/CN
E42             1      INOSOSE REDUCTASE (NAD(P)H)/CN
E43             1      INOSOSE, (2,4-DINITROPHENYL)HYDRAZONE/CN
E44             1      INOSOSE, 2,3-DEOXY-1-O-METHYL-/CN
E45             1      INOSOSE, 2,3:4,5-DIANHYDRO-6-C-(3-METHOXY-3-OXO-2-((1-OXO-2,
                       8-DECADIENYL)AMINO)PROPYL)-/CN
E46             1      INOSOSE, 5-O-METHYL-/CN
E47             1      INOSOSE, DIETHYL DITHIOACETAL/CN
E48             1      INOSOSE, DIHEPTYL DITHIOACETAL/CN

=> s e39
L1              1 INOSOSE/CN

=> d

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   13124-19-1  REGISTRY
CN   Inosose (6CI, 7CI, 8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   Cyclohexanone, 2,3,4,5,6-pentahydroxy-
CN   Pentahydroxycyclohexanone
FS   3D CONCORD
MF   C6 H10 O6
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
       CHEMINFORMRX, USPATFULL
         (*File contains numerically searchable property data)
```



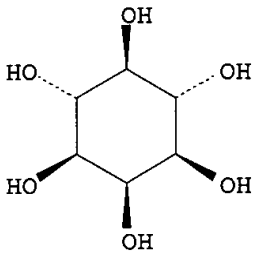
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

21 REFERENCES IN FILE CA (1957 TO DATE)
21 REFERENCES IN FILE CAPLUS (1957 TO DATE)
23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e myo-inositol/cn
E49           1     MYO-D-INOSITOL PENTAKIS(DIHYDROGEN PHOSPHATE)/CN
E50           1     MYO-INOSAMINE-2/CN
E51           1 --> MYO-INOSITOL/CN
E52           1     MYO-INOSITOL .BETA.-GLUCOSIDE/CN
E53           1     MYO-INOSITOL 1,2,3,4,5-PENTAKISPHOSPHATE/CN
E54           1     MYO-INOSITOL 1,2,3,4,5-PENTAPHOSPHATE/CN
E55           1     MYO-INOSITOL 1,2,3,4,6-PENTAKISPHOSPHATE/CN
E56           1     MYO-INOSITOL 1,2,3,5,6-PENTAKISPHOSPHATE/CN
E57           1     MYO-INOSITOL 1,2,4,5,6-PENTAKISPHOSPHATE/CN
E58           1     MYO-INOSITOL 1,2,4,5,6-PENTAPHOSPHATE/CN
E59           1     MYO-INOSITOL 1,2-CYCLIC PHOSPHATE/CN
E60           1     MYO-INOSITOL 1,3,4,5,6-PENTAKIS(PHOSPHATE)/CN

=> s e51
L2            1 MYO-INOSITOL/CN

=> d

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   87-89-8  REGISTRY
CN   myo-Inositol (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Inositol, myo- (8CI)
OTHER NAMES:
CN   Bios I
CN   cis-1,2,3,5-trans-4,6-Cyclohexanehexol
CN   Cyclohexanehexol
CN   Cyclohexitol
CN   Dambose
CN   i-Inositol
CN   Inosital
CN   Inosite
CN   Inositene
CN   Inositina
CN   Inositol
CN   iso-Inositol
CN   Iso-inositol
CN   Meat sugar
CN   meso-Inositol
CN   Mesoinosit
CN   Mesoinosite
CN   Mesoinositol
CN   Mesol
CN   Mesovit
CN   MI
```

CN Mouse antialopecia factor
CN Myoinosite
CN Myoinositol
CN Nucite
CN Phaseomannite
CN Phaseomannitol
CN Rat antispectacled eye factor
CN Scyllite
FS STEREOSEARCH
DR 53319-35-0
MF C6 H12 O6
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



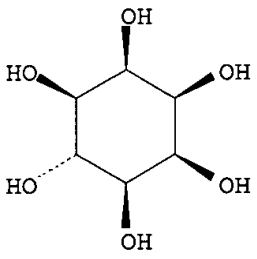
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6448 REFERENCES IN FILE CA (1957 TO DATE)
492 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6448 REFERENCES IN FILE CAPLUS (1957 TO DATE)
9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e epi-inositol/cn
E61 1 EPI-ILMAQUINONE/CN
E62 1 EPI-INISITOL, 3-C-((ACETYLOXY)METHYL)-1,2-ANHYDRO-4-DEOXY-, 5,6-DIACETATE/CN
E63 1 --> EPI-INOSITOL/CN
E64 1 EPI-INOSITOL, 1,2,3,4,5,6-HEXA-O-METHYL-/CN
E65 1 EPI-INOSITOL, 1,2,3,4,5,6-HEXAKIS-O-(PHENYLMETHYL)-/CN
E66 1 EPI-INOSITOL, 1,2,3,4-TETRADEOXY-4-IODO-1,3-BIS(((PHENYLMETHOXY)CARBONYL)AMINO)-, 5,6-DIACETATE/CN
E67 1 EPI-INOSITOL, 1,2,3,5,6-PENTAACETATE 4-(4-(ACETYLOXY)BENZOATE)/CN
E68 1 EPI-INOSITOL, 1,2,3,5,6-PENTAACETATE 4-(4-HYDROXYBENZOATE)/CN
E69 1 EPI-INOSITOL, 1,2,3,5,6-PENTAACETATE 4-(5-NITRO-2-FURANCARBOXYLATE)/CN
E70 1 EPI-INOSITOL, 1,2,3,6-TETRABENZOATE/CN
E71 1 EPI-INOSITOL, 1,2,3-TRIS(DIHYDROGEN PHOSPHATE)/CN
E72 1 EPI-INOSITOL, 1,2,4,5,6-PENTAKIS-O-(TRIMETHYLSILYL)-, BIS(TRIMETHYLSILYL) PHOSPHATE/CN

=> s e63

```
L3            1 EPI-INOSITOL/CN

=> d

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN   488-58-4  REGISTRY
CN   epi-Inositol (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Inositol, epi- (8CI)
FS   STEREOSEARCH
MF   C6 H12 O6
CI   COM
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS,
       CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, GMELIN*, IPA, SPECINFO,
       TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

             101 REFERENCES IN FILE CA (1957 TO DATE)
               4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             101 REFERENCES IN FILE CAPLUS (1957 TO DATE)


=> file stnguide
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    20.10      20.31

FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 30, 2003 (20030530/UP).

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.06      20.37

FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
```

FILE COVERS 1907 - 2 Jun 2003 VOL 138 ISS 23
FILE LAST UPDATED: 1 Jun 2003 (20030601/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l3/bpn
           101 L3
         85960 BPN/RL
L4           0 L3/BPN
                (L3 (L) BPN/RL)

=> s l3/prep
           101 L3
       3009116 PREP/RL
L5            10 L3/PREP
                (L3 (L) PREP/RL)

=> d ab bib l5
```

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB The various inositol polyphosphates have been found to trigger many important biol. processes. Although the knowledge of this phosphoinositide signaling system has been discovered in the past 10 yr, many factors remain unclear. For this reason, there is an increased demand for supplies of D-myo-inositol and particularly of novel analogs to investigate these biol. mechanisms in more detail. Herein, we report the efficient syntheses of all diastereoisomers of inositol starting with 6-O-acetyl-5-enopyranosides. Conversion of 6-O-acetyl-5-enopyranosides into the corresponding substituted cyclohexanones (Ferrier-II rearrangement) was found to proceed efficiently with a catalytic amt. of palladium dichloride. Stereoselective redn. of .beta.-hydroxy ketones obtained provided the precursors to all inositol diastereoisomers in good to excellent yields and with high stereoselectivities. Good accessibility of these enantiomerically pure inositol diastereoisomers results in the efficient syntheses of D-myo-inositol 1,4,5-trisphosphate and D-myo-inositol 1,3,4,5-tetrakisphosphate.

AN 2001:195872 CAPLUS
DN 135:19834
TI Novel Synthesis of Enantiomerically Pure Natural Inositols and Their Diastereoisomers
AU Takahashi, Hideyo; Kittaka, Hisae; Ikegami, Shiro
CS School of Pharmaceutical Sciences, Teikyo University, Sagamiko Kanagawa, 199-0195, Japan
SO Journal of Organic Chemistry (2001), 66(8), 2705-2716
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:19834
RE.CNT 100 THERE ARE 100 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> d 2-10 ab bib
```

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB L-Epi-2-inosose and epi-inositol, which are useful as various drugs or synthesis intermediates, can be efficiently produced from less expensive myo-inositol. Myo-inositol is treated with a gram-neg. bacterium. e.g. Xanthomonas sp., capable of converting myo-inositol into L-epi-2-inosose to thereby convert the myo-inositol into L-epi-2-inosose. The L-epi-2-inosose thus obtained is further reacted in an aq. reaction medium with a reducing agent comprising an alkali metal boron hydride or another alkali metal hydride to form epi-inositol and myo-inositol. Next, the epi-inositol is sepd. and isolated from the redn. reaction mixt. comprising epi-inositol and myo-inositol to give epi-inositol.

AN 2000:881342 CAPLUS

DN 134:42384

TI Novel process for producing L-epi-2-inosose by microbial oxidation of myo-inositol and novel process for producing epi-inositol

IN Takahashi, Atsushi; Kanbe, Kenji; Mori, Tetsuya; Kita, Yuichi; Tamamura, Tsuyoshi; Takeuchi, Tomio

PA Hokko Chemical Industry Co., Ltd., Japan; Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai

SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000075355	A1	20001214	WO 2000-JP3687	20000607
	W: CA, CN, IL, IN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1197562	A1	20020417	EP 2000-937174	20000607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	JP 1999-159861	A	19990607		
	JP 1999-340523	A	19991130		
	JP 2000-151709	A	20000523		
	WO 2000-JP3687	W	20000607		

OS CASREACT 134:42384

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB The inosose deriv. I (Bn = PhCH2) was obtained with high stereoselectivity by intramol. aldol condensation of the aldohexos-5-ulose II, and it was selectively reduced and debenzylated to give epi-inositol in high yield. The stereochem. and the preferred conformations of the compds. were detd. through 1D- and 2D-NMR expts.

AN 2000:324203 CAPLUS

DN 133:105232

TI Rare and complex saccharides from D-galactose and other milk-derived carbohydrates. Part 12. A new highly diastereoselective synthesis of epi-inositol from D-galactose

AU Pistara, Venerando; Barili, Pier Luigi; Catelani, Giorgio; Corsaro, Antonino; D'Andrea, Felicia; Fisichella, Salvatore

CS Dipartimento di Scienze Chimiche, Universita degli Studi di Catania, Catania, I-95125, Italy

SO Tetrahedron Letters (2000), 41(17), 3253-3256
CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 133:105232

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB New methods are given for the prodn. of cellodextrins by the trifluoroacetic acid hydrolysis of cellulose and for the subsequent anal. and preparative high-performance liq. chromatog. (HPLC) of these useful oligosaccharides. In addn., recently developed methods for the anal. and preparative HPLC of inositols and pectin oligosaccharides are discussed.
AN 1995:463928 CAPLUS
DN 122:242660
TI Analytical and preparative HPLC of carbohydrates: inositols and oligosaccharides derived from cellulose and pectin
AU Hicks, Kevin B.; Hotchkiss, Arland T. Jr.; Sasaki, Ken; Irwin, Peter L.; Doner, Landis W.; Nagahashi, Gerald; Haines, Rebecca M.
CS Eastern Regional Research Center, Agricultural Research Service, USDA, Philadelphia, PA, 19118, USA
SO Carbohydrate Polymers (1994), 25(4), 305-13
CODEN: CAPOD8; ISSN: 0144-8617
PB Elsevier
DT Journal
LA English

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB Pseudomonas putida microbial oxidn. of benzene and singlet oxygen reaction of the resulting cis-cyclohexa-3,5-diene-1,2-diol have been used in the synthesis of four inositols (the muco, allo, epi and (.+-.)-chiro isomers) and of the 2-O-methyl-chiro-inositol, (.+-.)-quebrachitol.
AN 1994:54834 CAPLUS
DN 120:54834
TI Microbial oxidation of benzene as a route to inositol stereoisomers and (.+-.)-quebrachitol
AU Carless, Howard A. J.; Busia, K.; Oak, O. Z.
CS Dep. Chem., Birkbeck Coll., London, WC1H 0PP, UK
SO Synlett (1993), (9), 672-4
CODEN: SYNLES; ISSN: 0936-5214
DT Journal
LA English
OS CASREACT 120:54834

L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB A method for Pd-catalyzed hydrogenation and deuteration of tetrahydroxybenzoquinone to give title compds. and their deuterated derivs., which were sepd. by liq. chromatog. using Ca2+ exchange resins.
AN 1993:603752 CAPLUS
DN 119:203752
TI preparation of cis-inositol, meso-inositol, epi-inositol, and cis-quercitol
IN Odier, Leon
PA Commissariat a l'Energie Atomique, Fr.
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 524082	A1	19930120	EP 1992-402031	19920715
	EP 524082	B1	19951018		
	R: BE, CH, DE, GB, LI				
	FR 2679229	A1	19930122	FR 1991-8958	19910716
	FR 2679229	B1	19940805		
	AU 9219451	A1	19930121	AU 1992-19451	19920703
	AU 652647	B2	19940901		
PRAI	FR 1991-8958		19910716		

L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2003 ACS

AB Conductometric, potentiometric and titrimetric studies of aq. telluric acid at pH 4.8-11.0 in the presence of acyclic hexols show that whereas only 1:1 complexes are formed at low pH, 1:3 polyol-tellurates exist only in strongly alk. media. The 1:2 chelates behave as transient intermediates. Cyclohexols exclusively form 1:1 complexes with stannate(IV), antimonate(V) and tellurate(VI) oxyanions, even at extreme pH conditions.
AN 1985:196886 CAPLUS
DN 102:196886
TI On the chelation of stannate(IV), antimonate(V) and tellurate(VI) anions with cyclic and acyclic hexols
AU Mbabazi, Jolocam
CS Dep. Chem., Makerere Univ., Kampala, Uganda
SO Polyhedron (1985), 4(1), 75-80
CODEN: PLYHDE; ISSN: 0277-5387
DT Journal
LA English

L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB The esters were prepd. by reaction of 5-nitro-2-furoyl chloride with inositol stereoisomers in CHCl3 at low temp. The esters were characterized by paper chromatog. For the food industry, their antimicrobial activities were tested, and the antimicrobial activity of muco-inositol ester was superior to the others.
AN 1974:108787 CAPLUS
DN 80:108787
TI Synthesis of cyclitol derivatives. 6. Synthesis of O-(5-nitro-2-furoyl)-inositols and their applications in the food industry
AU Sohn, Joo Hwan; Kim, Yong In; Park, Young Rang
CS Dep. Chem. Eng., Inha Univ., Inchon, S. Korea
SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 249-57
CODEN: HSKCAN; ISSN: 0367-6293
DT Journal
LA Korean

L5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB Redn. of penta-O-acetyl-myo-inosose-2 by catalytic hydrogenation and with sodium-amalgam was carried out in alc. soln. at pH 3 .apprx. 4. The former reduction product was axial-alc., and the latter equatorial-alc. On redn. of penta-O-acetyl-DL-epi-inosose-2 with NaBH4 and sodium-amalgam in the previous condition, ax.-alc. and eq.-alc. were obtained. The synthesis of various inositol-p-hydroxybenzoates are described. The esters were characterized by paper chromatog. and sapon. and their antimicrobial activities were tested for the application of food industry. The antimicrobial activity of epi-inositol ester was superior to its analogous.
AN 1974:108786 CAPLUS
DN 80:108786
TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-inositols and their applications in the food industry
AU Sohn, Joo Hwan
CS Dep. Chem. Eng., Inha Univ., Inchon, S. Korea
SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 240-8
CODEN: HSKCAN; ISSN: 0367-6293
DT Journal
LA Korean

L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2003 ACS
AB Cis-Inositol was synthesized from epiinositol in 7 steps in an overall yield of 25%. The required inversion at C-6 was achieved by oxidn. with Me2SO-Ac2O followed by stereospecific redn.
AN 1971:530042 CAPLUS
DN 75:130042
TI Cyclitols. XXXIII. Practical synthesis of cis-inositol
AU Angyal, S. J.; Hickman, R. J.

CS Sch. Chem., Univ. New South Wales, Kensington, Australia
SO Carbohydrate Research (1971), 20(1), 97-104
CODEN: CRBRAT; ISSN: 0008-6215
DT Journal
LA English

=> s epi (3a) inososе
9420 EPI
27 EPIS
9436 EPI
(EPI OR EPIS)
272 INOSOSE
30 INOSOSES
278 INOSOSE
(INOSOSE OR INOSOSES)
L6 52 EPI (3A) INOSOSE

=> d ti l6

L6 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of L-epi-inositol

=> d ti tot

L6 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of L-epi-inositol

L6 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Compositions for inhibiting the proliferation of human immunodeficiency virus and method of inhibiting the proliferation of this virus

L6 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI (-)-**epi-Inosose**-2

L6 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Novel process for producing L-**epi**-2-**inosose** by microbial oxidation of myo-inositol and novel process for producing epi-inositol

L6 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Rare and complex saccharides from D-galactose and other milk-derived carbohydrates. Part 12. A new highly diastereoselective synthesis of epi-inositol from D-galactose

L6 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis, structure-activity relationships, and the effect of polyethylene glycol on inhibitors of phosphatidylinositol-specific phospholipase C from Bacillus cereus

L6 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Enzymic synthesis of aminocyclitol moieties of aminoglycoside antibiotics from inositol by Streptomyces spp.: detection of glutamine-aminocyclitol aminotransferase and diaminocyclitol aminotransferase activities in a spectinomycin producer

L6 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol:NADP oxidoreductase: purification, characterization, and use for analysis and synthesis

L6 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Lithium treatment of sea urchin sperm inhibits their ability to fertilize sea urchin oocytes

L6 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Reactions catalyzed by purified L-glutamine:keto-scyllo-inositol aminotransferase, an enzyme required for biosynthesis of aminocyclitol antibiotics

L6 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Enediol-anion formation and .beta.-elimination of cyclic .alpha.-hydroxycarbonyl compounds as studied by UV and NMR spectroscopy

L6 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Evaluation of the mass spectral analysis of soil inositol, inositol phosphates, and related compounds

L6 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Gamma-irradiation of cyclitols. I. Possibilities for thin-layer chromatographic separation of aqueous reaction mixtures. Qualitative determination of the fission product

L6 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-inositols and their applications in the food industry

L6 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of cyclitol derivatives. IV. Electrolytic reduction of DL-**epi**-2-**inosose**

L6 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Dimethyl sulfoxide oxidation of inositol derivatives

L6 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Distribution and properties of CDP-diglyceride:inositol transferase from brain

L6 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Reduction of DL-**epi**-**inosose**-2 and its acetyl derivative

L6 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Methods in inositol chemistry. III. Bromine oxidation of inositols for preparation of inosose phenylhydrazones and phenylosazones

L6 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Formation of arylazocyclohexene derivatives on acylation of certain inosose phenylhydrazones

L6 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Methods in inositol chemistry. II. Acetic anhydride-phosphoric acid as an acetylating agent

L6 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Inositol biosynthesis in Neurospora crassa

L6 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of inososes from their phenylhydrazones by use of a cation-exchange resin; separation of certain phenylhydrazones from phenylosazones

L6 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Hydrogenolysis of carbohydrates. X. Hydrogenolysis of (.+-.)-epi-inos-2-ose

L6 ANSWER 25 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of inososes and inositols from aldaric acid derivatives

L6 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2003 ACS

TI D-**epi-Inosose**-2 (D-**epi-inosose**).
Bacterial oxidation of **epi**-inositol

L6 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol series. XXXI. On the aromatization of inososes

L6 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol series. XXX. On the melting points and reduction of penta-Oacetyl inosose derivatives

L6 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitols and their methyl ethers. III. Catalytic air oxidation, the hydrogenolysis of ionoses, and some pentol and tetrol methyl ethers

L6 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of some substituted cyclitols and correlation of structure with their spectra

L6 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Paper electrophoresis of hexane hexols and of the products of controlled oxidation of meso-inositol

L6 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Comparison of the factors which affect the formation of adaptive enzymes for benzoic acid and inositol in a Mycobacterium

L6 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol series. XXIII. The reduction of two inososes by sodium borohydride

L6 ANSWER 34 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI The biochemistry of cyclitols. The utilization of three inososes by six microorganisms

L6 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Oxidative transformation of carbohydrates. X. A synthesis of streptamine from myo-inositol via the DL-2-oxo-myo-inosamine-4

L6 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI meso-Inositol, a growth factor for Saccharomyces cerevisiae. I. Role and specificity of meso-inositol in pyrimidine metabolism

L6 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Alicyclic reductones. I. Enediolization of DL-epi-mesoinosose and of scyllo-meso-inosose

L6 ANSWER 38 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol series. XX. Paper chromatography of cyclitols and cycloses

L6 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitols. XVII. Oxidation of various cyclitols by Acetobacter suboxydans

L6 ANSWER 40 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Oxidative transformation of carbohydrates. VIII. Catalytic oxidation of meso-inositol to scyllo-meso-inosose

L6 ANSWER 41 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Stereochemical studies in the aminodeoxyinositol series. II. DL-myo-Inosamine-4, DL-epi-inosamine-2, and streptamine

L6 ANSWER 42 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Polarographic study of inosose

L6 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI myo- and DL-**epi-Inosose**-2

L6 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Bacterial enzyme preparations oxidizing inositol and their inhibition by colchicine

L6 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI The cyclitol series. VIII. The configuration of DL-**epi**-ms-**inosose** and its l-rotatory form obtained by biochemical means

L6 ANSWER 46 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol derivatives. I. Derivatives of dl-epiinosose

L6 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of amino analogs of inositol (inosamines)

L6 ANSWER 48 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Stereochemistry of an enzymic reaction: oxidation of l-, d-, and epi-inositol by Acetobacter suboxydans

L6 ANSWER 49 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI The cyclitol series. VIII. The configuration of DL-epims-inosose and its l-rotatory form obtained by biochemical means

L6 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI The cyclitol series. VIII. The configuration of DL-**epi**-ms-**inosose** and its l-rotatory form obtained by biochemical means

L6 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Oxidation of stereoisomers of the inositol group by Acetobacter suboxydans

L6 ANSWER 52 OF 52 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol series. VI. The configuration of meso-inositol, scyllitol and the inosose obtained by biochemical means (scyllo-ms-inosose)

=> s microb? or microorg? or fung? or bacteri?
336807 MICROB?
132112 MICROORG?
181642 FUNG?
497376 BACTERI?
L7 940369 MICROB? OR MICROORG? OR FUNG? OR BACTERI?

=> d his

(FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003)

FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003
E L-EPI-2-INOSONE/CN
E INOSONE/CN
E L-EPI-2-INOSOSE/CN
E INOSOSE/CN
L1 1 S E39
E MYO-INOSITOL/CN
L2 1 S E51
E EPI-INOSITOL/CN
L3 1 S E63

FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003

FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003
L4 0 S L3/BPN
L5 10 S L3/PREP
L6 52 S EPI (3A) INOSOSE
L7 940369 S MICROB? OR MICROORG? OR FUNG? OR BACTERI?

=> s l6 and l7
L8 7 L6 AND L7

=> d ti l8

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Novel process for producing L-**epi**-2-**inosose** by **microbial** oxidation of myo-inositol and novel process for producing epi-inositol

=> d ti tot

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Novel process for producing L-**epi**-2-**inosose** by **microbial** oxidation of myo-inositol and novel process for producing epi-inositol

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Evaluation of the mass spectral analysis of soil inositol, inositol phosphates, and related compounds

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-inositols and their applications in the food industry

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI D-**epi**-**Inosose**-2 (D-**epi**-**inosose**). **Bacterial** oxidation of **epi**-inositol

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI The biochemistry of cyclitols. The utilization of three inososes by six **microorganisms**

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI **Bacterial** enzyme preparations oxidizing inositol and their inhibition by colchicine

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Cyclitol series. VI. The configuration of meso-inositol, scyllitol and the inosose obtained by biochemical means (scyllo-ms-inosose)

=> d ab bib 4 5 6 7

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS
AB Unavailable
AN 1963:73655 CAPLUS
DN 58:73655
OREF 58:12651d
TI D-**epi**-**Inosose**-2 (D-**epi**-**inosose**). **Bacterial** oxidation of **epi**-inositol
AU Posternak, Th.
CS Univ. Geneva, Switz.
SO Methods in Carbohydrate Chemistry (1962), 1, 289-91
CODEN: MCACAI; ISSN: 0097-3602
DT Journal
LA Unavailable

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS
AB Six inositol-requiring **microorganisms** (Saccharomyces cerevisiae, S. veronae, Torulopsis bacillaris, Kloeckera brevis, Schizosaccharomyces pombe liquefaciens strain (I), and inositol-less Neurospora crassa) were grown on media contg. one of 3 **inososes** (scyllo-meso-**inosose**, **epi**-meso-**inosose**, and d-inosose) or

inositol. Each organism was able to reduce the C:O group of the inosose, more or less specifically. Chromatographic analysis revealed the presence of inositol in the media of I to which only inosose had been added. I was able to use the l but not the d form of **epi**-meso-**inosose** . N. crassa used both forms.

AN 1957:26179 CAPLUS
DN 51:26179
OREF 51:5197e-f
TI The biochemistry of cyclitols. The utilization of three inososes by six **microorganisms**
AU Schopfer, W. H.; Posternak, Th.
CS Univ. Bern, Switz.
SO Schweiz. Z. allgem. Pathol. u. Bakteriol. (1956), 19, 654-9
DT Journal
LA Unavailable

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS
AB Cell-free enzyme prepns. (I) of Acetobacter suboxydans (II) preserved the ability of resting II to oxidize glucose to gluconic acid but were found to require an addnl. factor for the oxidation of meso, d- and epi-inositol, d-quercitol, and dl-**epi**-**inosose**. Heat-inactivated cells of II accelerated the oxidation of meso-inositol by I. Colchicine appeared to be a specific inhibitor for the oxidation of the inositols (but not glucose) by I; it did not affect the heat-stable factor. Other cycloheptanes, tropolone and 4,5-tetramethylenetropolone, exhibited similar inhibiting effects. Results of varying concns. of the inhibitors and I on the oxidation rates of the inositols are given.

AN 1952:20936 CAPLUS
DN 46:20936
OREF 46:3610d-f
TI **Bacterial** enzyme preparations oxidizing inositol and their inhibition by colchicine
AU Franzl, Robert E.; Chargaff, Erwin
CS Columbia Univ.
SO Nature (1951), 168, 955-7
DT Journal
LA Unavailable

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS
AB cf. C. A. 36, 2256.8. Inosose (I) was prepd. by the action of Acetobacter suboxydans on meso-inositol (II). I upon reduction with Na-Hg yields 2 cyclitols: II and scyllitol (III). III has the same m. p., 352-3.degree. (cor., Maquenne block) as natural scyllitol from Acanthia vulgaris and both yield hexaacetates m. 299.degree.. The dl-idosaccharic acid salts prepd. from scyllo-ms-inosose were identical with those prepd. from d- and l-xyloses by conventional means. P. indicates that because I was prepd. by **bacteria** it is extremely probable that it is optically inactive because of intramol. compensation. The author reviews the evidence for the present formula for II and suggests IV for inosose. Therefore meso-inositol must be II and scyllitol must be III. The pentahydroxycyclohexanones can have 16 possible stereoisomers with 4 sym. configurations and 6 pairs of optical antipodes, only 2 of which are known. P. suggests a nomenclature for the cycloses. To indicate the positions of the OH groups one places above or below a fraction bar the number of the C atoms concerned. Thus III becomes 2,4,6/3,5-inosose. The name of the cyclose is derived from the corresponding cyclitol. The derivs. prepd. from meso-inositol are designated ms-inositols. The cyclose prepd. by **bacterial** means from meso-inositol becomes scyllo-ms-inosose; the inosose prepd. by nitric oxidation and which when subsequently reduced furnishes, besides the meso-inositol, epiinositol (cf. C. A. 31, 1774.9), will be named **epi**-ms-**inosose**.

AN 1943:520 CAPLUS
DN 37:520
OREF 37:93h-i,94a-f
TI Cyclitol series. VI. The configuration of meso-inositol, scyllitol and the

```
     inosose obtained by biochemical means (scyllo-ms-inosose)
AU   Posternak, Theodore
SO   Helv. Chim. Acta (1942), 25, 746-52
DT   Journal
LA   French


=> DIS HIST

     (FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003)

     FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003
                E L-EPI-2-INOSONE/CN
                E INOSONE/CN
                E L-EPI-2-INOSOSE/CN
                E INOSOSE/CN
L1            1 S E39
                E MYO-INOSITOL/CN
L2            1 S E51
                E EPI-INOSITOL/CN
L3            1 S E63

     FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003

     FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003
L4            0 S L3/BPN
L5           10 S L3/PREP
L6           52 S EPI (3A) INOSOSE
L7       940369 S MICROB? OR MICROORG? OR FUNG? OR BACTERI?
L8            7 S L6 AND L7

=>

=>
Executing the logoff script...


=> LOG H

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    69.76      90.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -8.46      -8.46

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:24:15 ON 02 JUN 2003

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:sssptau184im

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 15:04:54 ON 02 JUN 2003
FILE 'CAPLUS' ENTERED AT 15:04:54 ON 02 JUN 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
```

```
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      69.76      90.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -8.46      -8.46

=> d his

     (FILE 'HOME' ENTERED AT 14:12:52 ON 02 JUN 2003)

     FILE 'REGISTRY' ENTERED AT 14:12:59 ON 02 JUN 2003
               E L-EPI-2-INOSONE/CN
               E INOSONE/CN
               E L-EPI-2-INOSOSE/CN
               E INOSOSE/CN
L1           1 S E39
               E MYO-INOSITOL/CN
L2           1 S E51
               E EPI-INOSITOL/CN
L3           1 S E63

     FILE 'STNGUIDE' ENTERED AT 14:16:31 ON 02 JUN 2003

     FILE 'CAPLUS' ENTERED AT 14:17:11 ON 02 JUN 2003
L4           0 S L3/BPN
L5          10 S L3/PREP
L6          52 S EPI (3A) INOSOSE
L7      940369 S MICROB? OR MICROORG? OR FUNG? OR BACTERI?
L8           7 S L6 AND L7

=> d l8 ab bib

L8   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2003 ACS
AB   L-Epi-2-inosose and epi-inositol, which are
     useful as various drugs or synthesis intermediates, can be efficiently
     produced from less expensive myo-inositol.  Myo-inositol is treated with a
     gram-neg. bacterium. e.g. Xanthomonas sp., capable of converting
     myo-inositol into L-epi-2-inosose to thereby convert
     the myo-inositol into L-epi-2-inosose.  The L-
     epi-2-inosose thus obtained is further reacted in an aq.
     reaction medium with a reducing agent comprising an alkali metal boron
     hydride or another alkali metal hydride to form epi-inositol and
     myo-inositol.  Next, the epi-inositol is sepd. and isolated from the redn.
     reaction mixt. comprising epi-inositol and myo-inositol to give
     epi-inositol.
AN   2000:881342  CAPLUS
DN   134:42384
TI   Novel process for producing L-epi-2-inosose by
     microbial oxidation of myo-inositol and novel process for
     producing epi-inositol
IN   Takahashi, Atsushi; Kanbe, Kenji; Mori, Tetsuya; Kita, Yuichi; Tamamura,
     Tsuyoshi; Takeuchi, Tomio
PA   Hokko Chemical Industry Co., Ltd., Japan; Zaidan Hojin Biseibutsu Kagaku
     Kenkyu Kai
SO   PCT Int. Appl., 65 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.         KIND  DATE           APPLICATION NO.  DATE
     ---------------    ----  --------       ---------------  --------
PI   WO 2000075355      A1    20001214       WO 2000-JP3687   20000607
         W:  CA, CN, IL, IN, JP, KR, US
```

```
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
     EP 1197562        A1   20020417       EP 2000-937174   20000607
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI JP 1999-159861    A    19990607
     JP 1999-340523    A    19991130
     JP 2000-151709    A    20000523
     WO 2000-JP3687    W    20000607
OS   CASREACT 134:42384
RE.CNT  7      THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> d ind

L8   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2003 ACS
IC   C12P019-02; C12N001-20; C12P019-02; C12R001-64; C12P019-02; C12R001-38;
     C12P019-02; C12R001-02; C12P019-02; C12R001-18; C12P019-02; C12R001-425;
     C12P019-02; C12R001-21; C12P019-02; C12R001-01; C12N001-20; C12R001-64;
     C12N001-20; C12R001-38
CC   33-6 (Carbohydrates)
     Section cross-reference(s): 16
ST   gram neg bacterium Xanthomonas microbial oxidn.
     myoinositol; epiinosose prepn redn; epiinositol prepn
IT   Oxidation
        (biol.; novel process for producing L-epiinosose by microbial
        oxidn. of myo-inositol and boron hydride-redn. to epi-inositol)
IT   Acetobacter
     Acetobacteraceae
     Agrobacterium
     Enterobacter
     Enterobacteriaceae
     Erwinia
     Gluconobacter
     Gram-negative bacteria
     Haemophilus
     Pasteurella
     Pasteurellaceae
     Pseudomonadaceae
     Pseudomonas
     Reduction
     Rhizobiaceae
     Serratia
     Xanthomonas
     Yersinia
        (novel process for producing L-epiinosose by microbial oxidn.
        of myo-inositol and boron hydride-redn. to epi-inositol)
IT   6623-68-3P, epi-2-Inosose
     RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological
     study); PREP (Preparation); RACT (Reactant or reagent)
        (novel process for producing L-epiinosose by microbial oxidn.
        of myo-inositol and boron hydride-redn. to epi-inositol)
IT   87-89-8, myo-Inositol
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (novel process for producing L-epiinosose by microbial oxidn.
        of myo-inositol and boron hydride-redn. to epi-inositol)
IT   488-58-4P, epi-Inositol
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (novel process for producing L-epiinosose by microbial oxidn.
        of myo-inositol and boron hydride-redn. to epi-inositol)


=> s  6623-68-3P
L9            4 6623-68-3P
```

=> d ab bib tot

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB L-Epi-2-inosose and epi-inositol, which are useful as various drugs or synthesis intermediates, can be efficiently produced from less expensive myo-inositol. Myo-inositol is treated with a gram-neg. bacterium. e.g. Xanthomonas sp., capable of converting myo-inositol into L-epi-2-inosose to thereby convert the myo-inositol into L-epi-2-inosose. The L-epi-2-inosose thus obtained is further reacted in an aq. reaction medium with a reducing agent comprising an alkali metal boron hydride or another alkali metal hydride to form epi-inositol and myo-inositol. Next, the epi-inositol is sepd. and isolated from the redn. reaction mixt. comprising epi-inositol and myo-inositol to give epi-inositol.

AN 2000:881342 CAPLUS

DN 134:42384

TI Novel process for producing L-epi-2-inosose by microbial oxidation of myo-inositol and novel process for producing epi-inositol

IN Takahashi, Atsushi; Kanbe, Kenji; Mori, Tetsuya; Kita, Yuichi; Tamamura, Tsuyoshi; Takeuchi, Tomio

PA Hokko Chemical Industry Co., Ltd., Japan; Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai

SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000075355	A1	20001214	WO 2000-JP3687	20000607
	W: CA, CN, IL, IN, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1197562	A1	20020417	EP 2000-937174	20000607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	JP 1999-159861	A	19990607		
	JP 1999-340523	A	19991130		
	JP 2000-151709	A	20000523		
	WO 2000-JP3687	W	20000607		

OS CASREACT 134:42384

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB Controlled oxidn. of myo-inositol [87-89-8] with HNO3 gave DL-2,3,4,6/5-pentahydroxycyclohexanone (I) [6623-68-3], purified via the phenylhydrazone and the pentaacetate. This compd. was treated with CH2N2 in Et2O, to give DL-4,7-anhydro-4-hydroxymethyl-epi-inositol (II) [52882-07-2]. II treated with ethylenediamine in abs. MeOH for 3 hr under reflux gave DL-4-C-[N-(ethylamino)aminomethyl]-epi-inositol (III) [52828-92-9]. III was purified by addn. of petroleum ether to ppt. the crude III, resoln. in MeOH, conversion to the hydrochloride by addn. of HCl-satd. MeOH, neutralization, and recrystn. from aq. MeOH, giving III with capillary m.p. .apprx.145.degree.. Sepharose 4B was treated with BrCN at pH 11, and then coupled with .epsilon.-aminocaproic acid by heating for 15 hr. The Sepharose deriv. was sepd. and washed successively with dil. NaHCO3, dil. HCl, NaCl soln, and water. It was then washed with pyridine, and treated with III in water and N,N'-dicyclohexylcarbodiimide (DCC) in pyridine, shaking 10 days at room temp. The gel was then recovered, retreated with DCC and washed successively with dil. HCl, cold dil. NaHCO3, dil. NaCl soln., and water. This material can be used in the affinity chromatog. of inositol oxygenase [9029-59-8], myoinositol 1-phosphate synthase [9032-95-5], and inositol-phosphorylating enzymes.

AN 1974:532205 CAPLUS

DN 81:132205
TI Synthesis of a specifically substituted Sepharose derivative for the affinity chromatography of enzymes acting on myo-inositol
AU Koller, F.; Hoffmann-Ostenhof, O.
CS Inst. Allg. Biochem., Univ. Wien, Vienna, Austria
SO Monatshefte fuer Chemie (1974), 105(2), 379-81
CODEN: MOCMB7; ISSN: 0026-9247
DT Journal
LA German

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB The esters were prepd. by reaction of 5-nitro-2-furoyl chloride with inositol stereoisomers in $CHCl_3$ at low temp. The esters were characterized by paper chromatog. For the food industry, their antimicrobial activities were tested, and the antimicrobial activity of muco-inositol ester was superior to the others.
AN 1974:108787 CAPLUS
DN 80:108787
TI Synthesis of cyclitol derivatives. 6. Synthesis of O-(5-nitro-2-furoyl)-inositols and their applications in the food industry
AU Sohn, Joo Hwan; Kim, Yong In; Park, Young Rang
CS Dep. Chem. Eng., Inha Univ., Inchon, S. Korea
SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 249-57
CODEN: HSKCAN; ISSN: 0367-6293
DT Journal
LA Korean

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB Redn. of penta-O-acetyl-myo-inosose-2 by catalytic hydrogenation and with sodium-amalgam was carried out in alc. soln. at pH 3 .apprx. 4. The former reduction product was axial-alc., and the latter equatorial-alc. On redn. of penta-O-acetyl-DL-epi-inosose-2 with $NaBH_4$ and sodium-amalgam in the previous condition, ax.-alc. and eq.-alc. were obtained. The synthesis of various inositol-p-hydroxybenzoates are described. The esters were characterized by paper chromatog. and sapon. and their antimicrobial activities were tested for the application of food industry. The antimicrobial activity of epi-inositol ester was superior to its analogous.
AN 1974:108786 CAPLUS
DN 80:108786
TI Synthesis of cyclitol derivatives. 5. Synthesis of O-(p-hydroxybenzoyl)-inositols and their applications in the food industry
AU Sohn, Joo Hwan
CS Dep. Chem. Eng., Inha Univ., Inchon, S. Korea
SO Han'guk Sikp'um Kwahakhoechi (1973), 5(4), 240-8
CODEN: HSKCAN; ISSN: 0367-6293
DT Journal
LA Korean

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	85.11	105.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-11.72	-11.72

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:06:55 ON 02 JUN 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptau184im

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

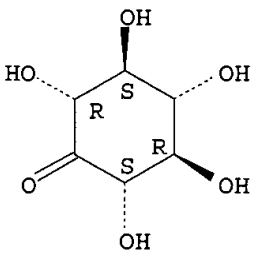
NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Jun 03	New e-mail delivery for search results now available
NEWS 4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 7	Sep 03	JAPIO has been reloaded and enhanced
NEWS 8	Sep 16	Experimental properties added to the REGISTRY file
NEWS 9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11	Oct 24	BEILSTEIN adds new search fields
NEWS 12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13	Nov 18	DKILIT has been renamed APOLLIT
NEWS 14	Nov 25	More calculated properties added to REGISTRY
NEWS 15	Dec 04	CSA files on STN
NEWS 16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17	Dec 17	TOXCENTER enhanced with additional content
NEWS 18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 20	Feb 13	CANCERLIT is no longer being updated
NEWS 21	Feb 24	METADEX enhancements
NEWS 22	Feb 24	PCTGEN now available on STN
NEWS 23	Feb 24	TEMA now available on STN
NEWS 24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 25	Feb 26	PCTFULL now contains images
NEWS 26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27	Mar 20	EVENTLINE will be removed from STN
NEWS 28	Mar 24	PATDPAFULL now available on STN
NEWS 29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 30	Apr 11	Display formats in DGENE enhanced
NEWS 31	Apr 14	MEDLINE Reload
NEWS 32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 33	Apr 21	Indexing from 1947 to 1956 being added to records in CA/CAPLUS
NEWS 34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 35	Apr 28	RDISCLOSURE now available on STN
NEWS 36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39	May 16	CHEMREACT will be removed from STN
NEWS 40	May 19	Simultaneous left and right truncation added to WSCA
NEWS 41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

```
 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS INTER     General Internet Information
 NEWS LOGIN     Welcome Banner and News Items
 NEWS PHONE     Direct Dial and Telecommunication Network Access to STN
 NEWS WWW       CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 07:27:21 ON 06 JUN 2003

=> file reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 07:27:32 ON 06 JUN 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    4 JUN 2003  HIGHEST RN 525536-93-0
DICTIONARY FILE UPDATES:   4 JUN 2003  HIGHEST RN 525536-93-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e myo-inosose/cn
E1            1     MYO-INOSITOL-SODIUM-COTRANSPORTING PROTEIN (MESEMBRYANTHEMUM
                     CRYSTALLINUM GENE ITR1 TONOPLAST-ASSOCIATED)/CN
E2            1     MYO-INOSITOL-SODIUM-COTRANSPORTING PROTEIN (MESEMBRYANTHEMUM
                     CRYSTALLINUM GENE ITR2 TONOPLAST-ASSOCIATED)/CN
E3            0 --> MYO-INOSOSE/CN
E4            1     MYO-INOSOSE REDUCTASE/CN
E5            1     MYO-INOSOSE-2/CN
E6            1     MYO-INOSOSE-2, 4-C-METHYL-/CN
E7            1     MYO-INOSOSE-2, PENTABENZOATE/CN
E8            1     MYO-INOSOSE-2-DEHYDRATASE/CN
E9            1     MYO-SALVARSAN/CN
E10           1     MYO/V1 PROTEIN (RAT)/CN
E11           1     MYOACTIN C/CN
E12           1     MYOACTIVE FACTOR M I (PERIPLANETA AMERICANA)/CN

=>  s e3-35
'E35' NOT FOUND
```

The E# entered is not currently defined.

```
=> s e3-e5
             0 MYO-INOSOSE/CN
             1 "MYO-INOSOSE REDUCTASE"/CN
             1 MYO-INOSOSE-2/CN
L1           2 (MYO-INOSOSE/CN OR "MYO-INOSOSE REDUCTASE"/CN OR MYO-INOSOSE-2/C
               N)

=> d l1

L1   ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2003 ACS
RN   51377-54-9  REGISTRY
CN   Reductase, inosose (reduced nicotinamide adenine dinucleotide (phosphate))
     (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   Inosose reductase (NAD(P)H)
CN   myo-Inosose reductase
MF   Unspecified
CI   MAN
LC   STN Files:   CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
               3 REFERENCES IN FILE CA (1957 TO DATE)
               3 REFERENCES IN FILE CAPLUS (1957 TO DATE)


=> d 2

L1   ANSWER 2 OF 2  REGISTRY  COPYRIGHT 2003 ACS
RN   488-64-2  REGISTRY
CN   myo-2-Inosose (7CI, 9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2-Inosose, myo- (8CI)
CN   myo-Inosose-2 (6CI)
OTHER NAMES:
CN   keto-scyllo-Inositol
CN   meso-2,3,4,5,6-Pentahydroxycyclohexanone
CN   Myoinosose
CN   scyllo-Inosose
CN   scyllo-myo-Inosose
CN   Scylloinosose
FS   STEREOSEARCH
DR   13309-55-2, 23327-66-4, 5618-72-4
MF   C6 H10 O6
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
       CASREACT, CHEMINFORMRX, CSCHEM, MEDLINE, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)

Relative stereochemistry.
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
```

```
               58 REFERENCES IN FILE CA (1957 TO DATE)
               58 REFERENCES IN FILE CAPLUS (1957 TO DATE)
                5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> DIS HIST

     (FILE 'HOME' ENTERED AT 07:27:21 ON 06 JUN 2003)

     FILE 'REGISTRY' ENTERED AT 07:27:32 ON 06 JUN 2003
                E MYO-INOSOSE/CN
L1             2 S E3-E5

=>

=>
Executing the logoff script...


=> LOG H

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      17.62      17.83

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:29:48 ON 06 JUN 2003

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:sssptau184im

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  Feb 24   PCTGEN now available on STN
 NEWS  4  Feb 24   TEMA now available on STN
 NEWS  5  Feb 26   NTIS now allows simultaneous left and right truncation
 NEWS  6  Feb 26   PCTFULL now contains images
 NEWS  7  Mar 04   SDI PACKAGE for monthly delivery of multifile SDI results
 NEWS  8  Mar 24   PATDPAFULL now available on STN
 NEWS  9  Mar 24   Additional information for trade-named substances without
                   structures available in REGISTRY
 NEWS 10  Apr 11   Display formats in DGENE enhanced
 NEWS 11  Apr 14   MEDLINE Reload
 NEWS 12  Apr 17   Polymer searching in REGISTRY enhanced
 NEWS 13  AUG 22   Indexing from 1927 to 1936 added to records in CA/CAPLUS
 NEWS 14  Apr 21   New current-awareness alert (SDI) frequency in
                   WPIDS/WPINDEX/WPIX
 NEWS 15  Apr 28   RDISCLOSURE now available on STN
 NEWS 16  May 05   Pharmacokinetic information and systematic chemical names
                   added to PHAR
 NEWS 17  May 15   MEDLINE file segment of TOXCENTER reloaded
 NEWS 18  May 15   Supporter information for ENCOMPPAT and ENCOMPLIT updated
 NEWS 19  May 19   Simultaneous left and right truncation added to WSCA
```

```
NEWS 20   May 19  RAPRA enhanced with new search field, simultaneous left and
                  right truncation
NEWS 21   Jun 06  Simultaneous left and right truncation added to CBNB
NEWS 22   Jun 06  PASCAL enhanced with additional data
NEWS 23   Jun 20  2003 edition of the FSTA Thesaurus is now available
NEWS 24   Jun 25  HSDB has been reloaded
NEWS 25   Jul 16  Data from 1960-1976 added to RDISCLOSURE
NEWS 26   Jul 21  Identification of STN records implemented
NEWS 27   Jul 21  Polymer class term count added to REGISTRY
NEWS 28   Jul 22  INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
                  Right Truncation available
NEWS 29   AUG 05  New pricing for EUROPATFULL and PCTFULL effective
                  August 1, 2003
NEWS 30   AUG 13  Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 31   AUG 15  PATDPAFULL: one FREE connect hour, per account, in
                  September 2003
NEWS 32   AUG 15  PCTGEN: one FREE connect hour, per account, in
                  September 2003
NEWS 33   AUG 15  RDISCLOSURE: one FREE connect hour, per account, in
                  September 2003
NEWS 34   AUG 15  TEMA: one FREE connect hour, per account, in
                  September 2003
NEWS 35   AUG 18  Data available for download as a PDF in RDISCLOSURE
NEWS 36   AUG 18  Simultaneous left and right truncation added to PASCAL
NEWS 37   AUG 18  FROSTI and KOSMET enhanced with Simultaneous Left and Right
                  Truncation
NEWS 38   AUG 18  Simultaneous left and right truncation added to ANABSTR

NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS    STN Operating Hours Plus Help Desk Availability
NEWS INTER    General Internet Information
NEWS LOGIN    Welcome Banner and News Items
NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:55:16 ON 25 AUG 2003

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 12:55:23 ON 25 AUG 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   22 AUG 2003  HIGHEST RN 571902-82-4
DICTIONARY FILE UPDATES:  22 AUG 2003  HIGHEST RN 571902-82-4
```

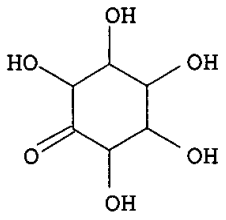
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

```
=> e pentahydroxycyclohexanone/cn
E1            1     PENTAHYDROXYBENZENE/CN
E2            1     PENTAHYDROXYCAPROIC ACID/CN
E3            1 --> PENTAHYDROXYCYCLOHEXANONE/CN
E4            1     PENTAHYDROXYFLAVONE/CN
E5            1     PENTAHYDROXYHEXANOIC ACID/CN
E6            1     PENTAHYDROXYNEPTUNATE(1-)/CN
E7            1     PENTAHYDROXYOCTANE/CN
E8            1     PENTAHYDROXYPALLADATE(1-)/CN
E9            1     PENTAHYDROXYPHOSPHORANE/CN
E10           1     PENTAHYDROXYVINCALEUKOBLASTINE SULFATE/CN
E11           1     PENTAICOSACENE CONJUGATE ACID/CN
E12           1     PENTAINDIUM POTASSIUM OCTASULFIDE/CN

=> s e3
L1            1 PENTAHYDROXYCYCLOHEXANONE/CN

=> d

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS on STN
RN   13124-19-1  REGISTRY
CN   Inosose (6CI, 7CI, 8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   Cyclohexanone, 2,3,4,5,6-pentahydroxy-
CN   Pentahydroxycyclohexanone
FS   3D CONCORD
MF   C6 H10 O6
LC   STN Files:   AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
       CHEMINFORMRX, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

27 REFERENCES IN FILE CA (1937 TO DATE)
27 REFERENCES IN FILE CAPLUS (1937 TO DATE)
23 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
```

```
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    6.70        6.91

FILE 'CAPLUS' ENTERED AT 12:56:23 ON 25 AUG 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 25 Aug 2003  VOL 139 ISS 9
FILE LAST UPDATED: 24 Aug 2003  (20030824/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l1/bpn
           27 L1
        88875 BPN/RL
L2          1 L1/BPN
              (L1 (L) BPN/RL)

=> d ab bib

L2   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS on STN
AB   A cyclitol ubiquinone oxidoreductase capable of catalyzing the conversion
     of myo-inositol to myo-inosose is purified from Gluconobacter and
     characterized.  The enzyme is useful in the prepn. of cyclohexanone
     derivs. for use as therapeutics or synthetic intermediates.
AN   1997:218481  CAPLUS
DN   126:208947
TI   A cyclitol ubiquinone oxidoreductase from Gluconobacter oxydans
IN   Wissler, Josef H.; Freivogel, Klaus-Wilhelm; Wiesner, Wolfgang
PA   Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V.,
     Germany
SO   Ger. Offen., 16 pp.
     CODEN: GWXXBX
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   DE 19628873        A1   19970123       DE 1996-19628873 19960717
     WO 9704101         A2   19970206       WO 1996-DE1341   19960717
     WO 9704101         A3   19970403
         W:  AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KG, KP,
             KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI,
             SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
             IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
             MR, NE, SN, TD, TG
     AU 9667318         A1   19970218       AU 1996-67318    19960717
PRAI DE 1995-19525990        19950717
     WO 1996-DE1341          19960717
```